

ABSTRACT

A high peak power optical resonator and combination of plural of the resonators, particularly to excite a light generator in the extreme ultraviolet. An optical resonator with a solid state amplifying medium is pulsed and pumped by diodes operating continuously. The optical resonator includes at least two laser rods, at least one mechanism to trigger optical pulses, the triggering mechanism located in a part of a cavity in which the laser beam diverges least, and first and second mirrors that delimit the cavity, the first mirror being highly reflecting and the second mirror being partly reflecting.